

CLAIMS

I claim:

- 1           1. A method of forming an incandescent lamp, comprising the steps of:  
2           forming a first lead wire by flattening an end portion of a section of  
3           electrically-conductive wire;  
4           providing a second lead wire formed from a section of electrically-conductive  
5           wire;  
6           attaching a filament between the second lead wire and the flattened end  
7           portion of the first lead wire with the flattened end portion being oriented such that  
8           the flattened end portion lies within a plane that intersects the filament; and  
9           sealing the filament and at least a portion of the first and second lead wires  
10          within a glass envelope.
- 1           2. The method of claim 1, wherein said forming step further comprises  
2           stamping the end portion.
- 1           3. The method of claim 2, wherein said forming step further comprises  
2           stamping the end portion using a tool that flattens the end portion and simultaneously  
3           imparts a roughened surface texture to the end portion.
- 1           4. The method of claim 1, wherein said forming step further comprises  
2           applying a roughened surface treatment to said flattened end portion.
- 1           5. The method of claim 4, wherein said applying step further comprises  
2           deforming said end portion to produce the roughened surface treatment.
- 1           6. The method of claim 4, wherein said applying step further comprises  
2           applying a coating to said end portion to produce the roughened surface treatment.
- 1           7. The method of claim 1, wherein said sealing step further comprises sealing  
2           the filament and at least a portion of the first and second lead wires within a glass  
3           envelope that contains a halogen gas, whereby said incandescent lamp comprises a  
4           halogen lamp.

1           8. The method of claim 1, further comprising the steps of:  
2           forming a third lead wire by flattening an end portion of a section of  
3           electrically-conductive wire;  
4           attaching a second filament between the second lead wire and the flattened end  
5           portion of the third lead wire with the flattened end portion of the third lead wire  
6           being oriented such that the it lies within a plane that intersects the second filament;  
7           and  
8           sealing the second filament and at least a portion of the third lead wire within  
9           the glass envelope.

1           9. The method of claim 1, further comprising the steps of securing the lead  
2           wires together using a bridge and sealing the bridge within the glass envelope along  
3           with the filament and lead wires.

1           10. A method of forming an incandescent lamp, comprising the steps of:  
2           flattening an outer end section of a first lead wire such that said first lead wire  
3           has a generally circular cross-sectional shaped portion and a generally non-circular  
4           cross-sectional shaped portion, both of electrically-conductive wire, where said non-  
5           circular cross-sectional shaped portion has a wide profile and a narrow profile;  
6           providing a second lead wire formed from a section of electrically-conductive  
7           wire;  
8           attaching a filament between said non-circular cross-sectional shaped portion  
9           of said first lead wire and said second lead wire;  
10          orientating said first lead wire such that said narrow profile is aligned in the  
11          direction of light emitted by said filament; and  
12          sealing said filament and at least a portion of said first and second lead wires  
13          within a glass envelope.

1           11. The method of claim 10, wherein said flattening step further comprises  
2           stamping the outer end section.

1           12. The method of claim 11, wherein said flattening step further comprises  
2           stamping said outer end section using a tool that imparts a roughened surface texture  
3           to said non-circular cross-sectional shaped portion.

1           13. The method of claim 10, wherein said flattening step further comprises  
2           applying a roughened surface treatment to said non-circular cross-sectional shaped  
3           portion.

1           14. The method of claim 13, wherein said applying step further comprises  
2           deforming said non-circular cross-sectional shaped portion to produce the roughened  
3           surface treatment.

1           15. The method of claim 13, wherein said applying step further comprises  
2           applying a coating to said non-circular cross-sectional shaped portion to produce the  
3           roughened surface treatment.

1           16. The method of claim 10, wherein said sealing step further comprises  
2           sealing said filament and at least a portion of said first and second lead wires within a  
3           glass envelope that contains a halogen gas, whereby said incandescent lamp  
4           comprises a halogen lamp.

1           17. The method of claim 10 further comprising the steps of:  
2           flattening an outer end section of a third lead wire such that said third lead  
3           wire has a generally circular cross-sectional shaped portion and a generally non-  
4           circular cross-sectional shaped portion, both of electrically-conductive wire, where  
5           said non-circular cross-sectional shaped portion has a wide profile and a narrow  
6           profile;  
7           attaching a second filament between said non-circular cross-sectional shaped  
8           portion of said third lead wire and said second lead wire;  
9           orientating said third lead wire such that said narrow profile of said third lead  
10          wire is aligned in the direction of light emitted by said second filament; and  
11          sealing said second filament and at least a portion of said third lead wire  
12          within said glass envelope.

1           18. The method of claim 10, further comprising the steps of securing said lead  
2 wires together using a bridge and sealing said bridge within said glass envelope along  
3 with said filament and lead wires.

1           19. A method of forming an incandescent lamp, comprising the steps of:  
2           forming a first lead wire by flattening an end portion of a section of  
3 electrically-conductive wire;  
4           providing a second lead wire formed from a section of electrically-conductive  
5 wire;  
6           forming a third lead wire by flattening an end portion of a section of  
7 electrically-conductive wire;  
8           attaching a first filament between said second lead wire and the flattened end  
9 portion of said first lead wire with the flattened end portion of said first lead wire  
10 being oriented such that the flattened end portion lies within a plane that intersects  
11 said first filament;  
12          attaching a second filament between said second lead wire and the flattened  
13 end portion of said third lead wire with the flattened end portion of said third lead  
14 wire being oriented such that the flattened end portion lies within a plane that  
15 intersects said second filament;  
16          securing said first, second, and third lead wires together using a bridge; and  
17          sealing said first and second filament, said bridge, and at least a portion of said  
18 first, second, and third lead wires within a glass envelope.